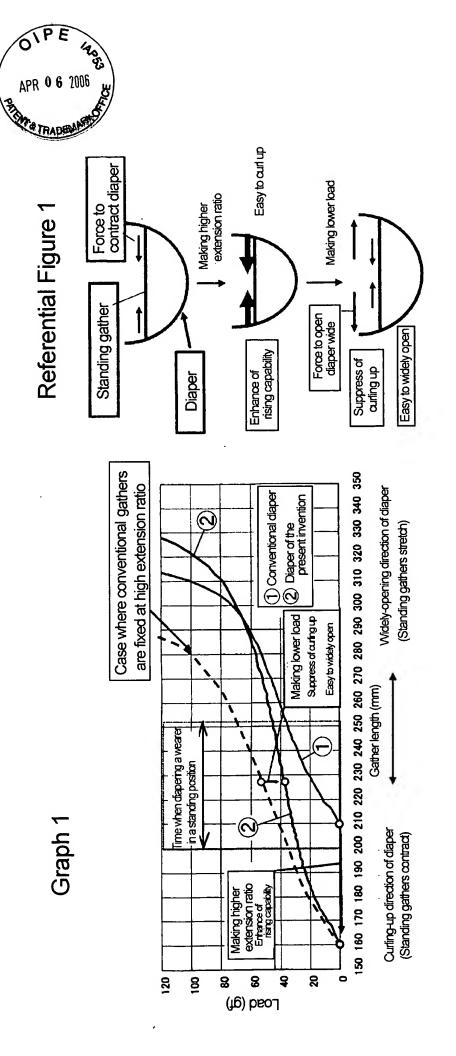
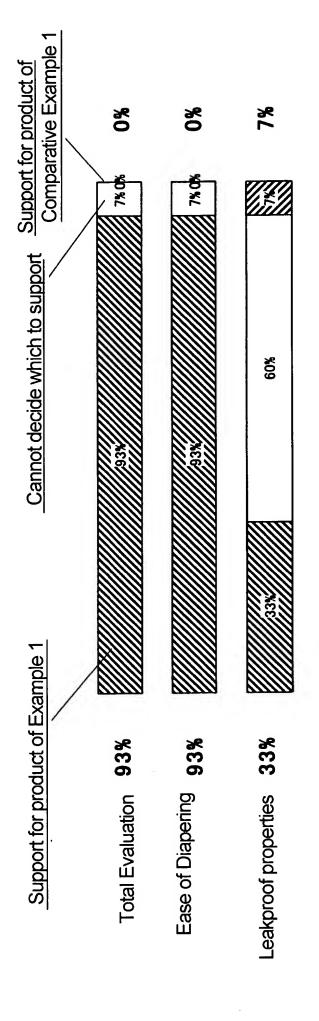
Material 1 Ease of Diapering in Standing Position by Standing Gathers (1)



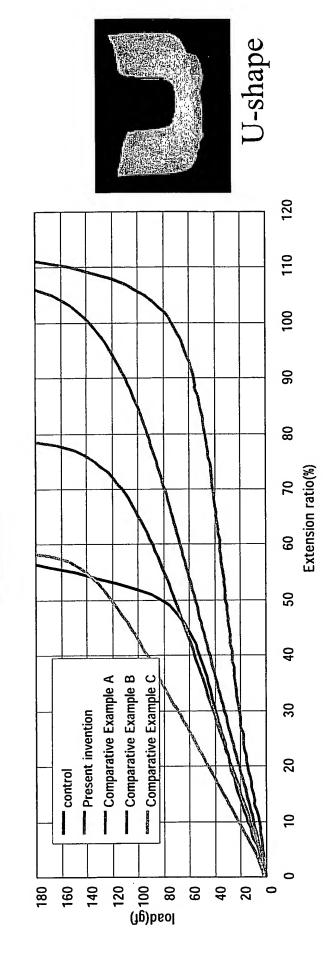
When diaper is brought into contact with the body for fastening a tape fastener Force to contract diaper Referential Figure 2 g When diaper is put on a wearer/ 8 Diaper as a whole side down by contracting behavior of standing gathers Standing gather rising capability Diaper Enhance of Case where conventional gathers are fixed at high extension ratio 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 Widely-opening direction of diaper (1) Conventional diaper
(2) Diaper of the present invention (Standing gathers stretch) Making lower load Prevention of stdng down Ime when daper is put on, Gather length (mm) Time when diapering a wearer in a standing position Graph 2 Curling-up direction of diaper (Standing gathers contract) Making higher extension ratio Erhance of rang capabiliy 120 8 <u>6</u> 8 **\$** 8 Load (gf)

Material 3 Comparison with respect to Ease of Diapering and Leakproof properties between Diapers within the Range and outside the Range of the Present Invention

Carried out on May, 2003 Thirty mothers having children who use diapers of large size were asked as monitors for evaluation Evaluation results of comparison after using about 45 diapers of large size per each product



Comparative Data



	Fixing extension ratio	Stz	Standing gather taken out from a diaper	om a diaper	Stiffnace	
	disposed in diaper	Effective Extension ratio	Tensile load in Effective Extension rațio	Increase rate of the tensile load		Shape of diaper when diapering a wearer
	(%)	(%)	gf	(%/36)	(gf/50mm)	
Control	09	30	40	1.2	28.4	A diaper curls up in the longitudinal direction
Present invention	110	80	48	0.5	(24.0)	A diaper curves in to a U-shape
Comparative Example A	80	20	71	1.5	28.4	A diaper curls up in the longitudinal direction
Comparative Example B	110	80	93	1.2	28.4	A diaper curls up in the longitudinal direction
Comparative Example C	06	9	109	1.9	28.4	A diaper curls up in the longitudinal direction